



west virginia department of environmental protection

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MEMORANDUM

To: Patty Hickman

From: Lawrence P. Sirinek, Ph.D. *LPS*

Date: October 6, 2015

cc: John Dempsey

Subject: Letter Report: Removal Assessment - Groundwater Sampling Activities – November to December 2014, Queen Street VOC Site, Martinsburg, Berkeley County, WV, Technical Direction Document No. TL01-14-10-001, EPA Contract Number EP-S3-10-04

Per your request, I have reviewed the above-referenced document prepared by the Superfund Technical Assessment and Response Team (START) - West contractor, TechLaw, Inc. (TechLaw), as part of a removal site evaluation. The site, identified in the report as the Queen Street VOC Site in Martinsburg, WV, was referred to USEPA for additional assessment after tetrachloroethene (PERC) had been identified in samples of soil gas obtained during a LUST investigation at an adjacent gas station/carryout.

Because the LUST investigation was intended to focus only on gasoline-related constituents historically released from USTs and associated dispensing equipment, the original groundwater investigation did not consider PERC as a site-related constituent. Thus the source of the PERC detected in soil gas could not be determined. Additional concern for potential PERC contamination in the groundwater arose from the site's close proximity (0.75 miles) to a municipal well field¹.

Although the site is located within a wellhead protection area, it is clear from the results of the EPA investigation of monitoring wells between the site and the well field, that impacts to the well field are unlikely. On the other hand, MW-1 was not included in the EPA investigation. As indicated in the attached figure, this well is closest to the soil gas sampling location exhibiting the highest concentration of PERC (SG-3). For this reason, the source of the PERC, the extent of any potential PERC plume, the potential for impacts via vapor intrusion to overlying buildings,

¹ Total Environmental Concepts, Inc. *Human Health and Ecological Risk Assessment Report, Sunny's One Stop*. October 2012.

and the potential impacts to occupants of these buildings cannot be determined from the EPA investigation.

I hope this discussion has been responsive to your questions. Should you require additional information, please contact me.

Figure 1. Soil Gas and Groundwater Sampling Locations for Sunny's One Stop

